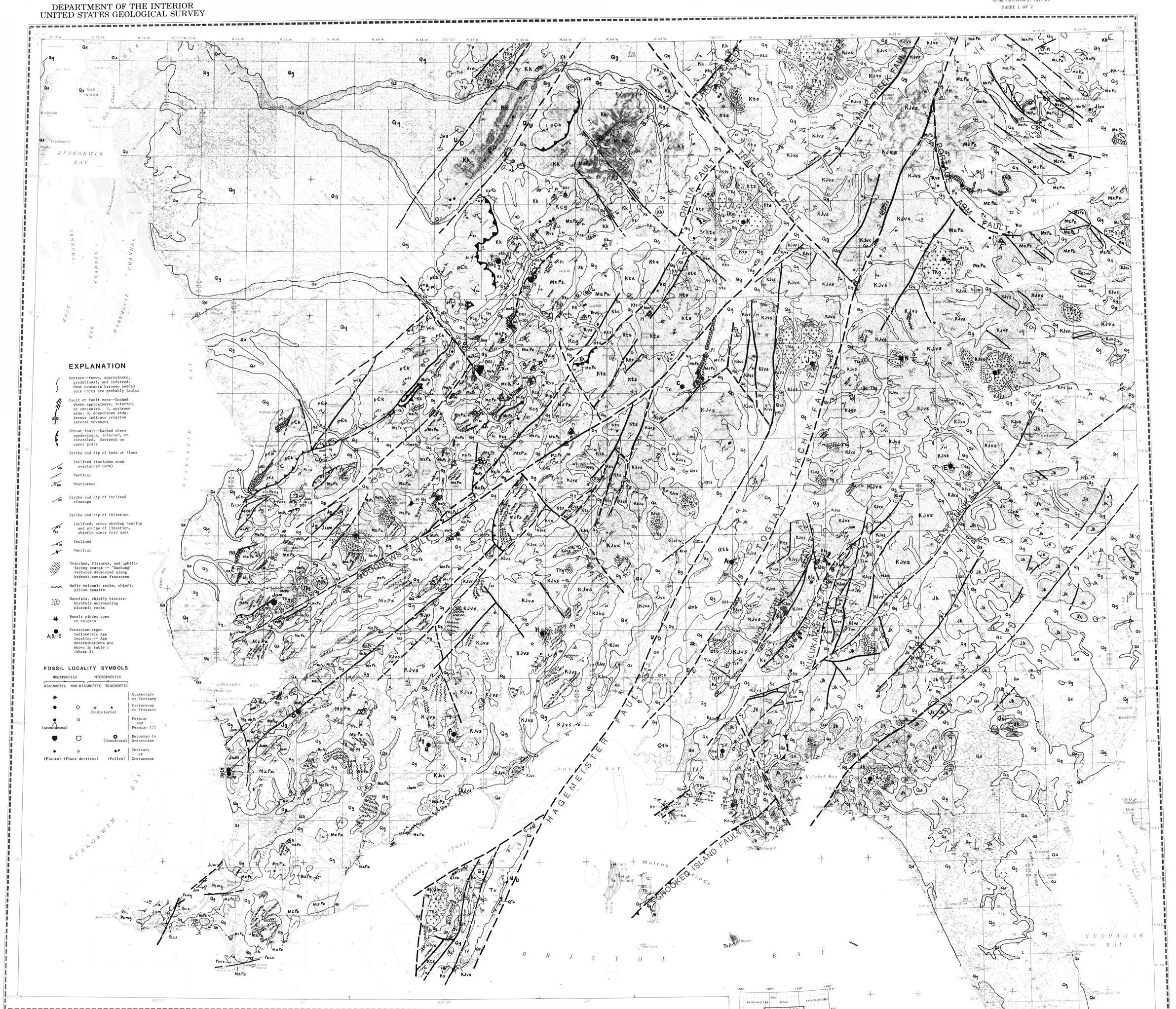
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

FOLIO OF THE
GOODNEWS AND HAGEMEISTER ISLAND QUADRANGLES REGION
OPEN FILE REPORT 78-9-B
HOARE AND COONRAD—GEOLOGY
SHEET 1 OF 2



EXPLANATION

Contact—Known, approximate, gradational, and inferred. Most contacts between bedded rock units are probably faults

Fault or fault zone—Dashed where approximate, inferred, or concealed. U, upthrown side; D, downthrown side. Arrows indicate relative lateral movement

Thrust fault—Dashed where approximate, inferred, or concealed. Sawteeth on upper plate

Strike and dip of beds or flows

- Inclined (includes some overturned beds)
- Vertical
- Overturned

Strike and dip of inclined cleavage

Strike and dip of foliation

- Inclined; arrow showing bearing and plunge of lineation, chiefly minor fold axes
- Inclined
- Vertical

Trenches, fissures, and uphill-facing scarps — "Sackung" features developed along bedrock tension fractures

Mafic volcanic rocks, chiefly pillow basalts

Hornfels, chiefly biotite-hornfels surrounding plutonic rocks

Basalt cinder cone or volcano

Potassium-argon radiometric age locality — Age determinations are shown in table 1 (sheet 2)

FOSSIL LOCALITY SYMBOLS

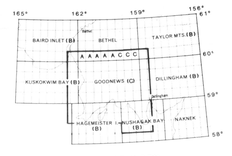
MEGAFOSSILS DIAGNOSTIC	MEGAFOSSILS NON-DIAGNOSTIC	MICROFOSSILS DIAGNOSTIC	
			Quaternary or Tertiary
		(Radiolaria)	Cretaceous to Triassic
(Atoxoceras)			Permian and Permian (?)
		(Conodonts)	Devonian to Ordovician
(Plants)	(Plant detritus)	(Pollen)	Tertiary or Cretaceous

GEOLOGIC MAP OF THE GOODNEWS AND HAGEMEISTER ISLAND QUADRANGLES REGION, SOUTHWESTERN ALASKA

BY

J. M. HOARE AND W. L. COONRAD

1978



BASE MAP INDEX

Base compiled from U.S. Geological Survey 1:63,360 (A) and 1:250,000 (B) scale topographic series 1952-1957 and advance field completion material (C) 1976 by Menlo Park Base Map Section

BACKGROUND INFORMATION RELATING TO THIS REPORT IS PUBLISHED AS U. S. GEOLOGICAL SURVEY OPEN FILE REPORT 78-9 (AVAILABLE FROM THE SAME SOURCE AS THE MAP).

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

SCALE 1:250 000

CONTOUR INTERVALS 50, 100, AND 200 FEET

DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1976